

SMART ENERGY MANAGEMENT



Dimensions : 650 x 350 x H1200mm - Weight : 25kg

This energy management cabinet incorporates the latest technologies towards energy efficiency. It carries out an energy balance for professional premises, like a retail store or a workshop. Calculate the consumed power from measuring instruments (not included), or from the integrated screen. Alarms can be programmed from consumption data, event, and fire risk detection. A Wi-fi access point allows the connection to the model, to program and consult the readings. It is compatible with PC, smartphone and tablet.

This model allows an easy removal of the mounting grid, and can be installed on the back of the cabinet for the wiring process. The system is protected with an emergency stop and an open-door detection. The open-door detection is disable with a key switch.

ref. ADE-TGE2

SUPPLIED FULLY WIRED AND CONFIGURED

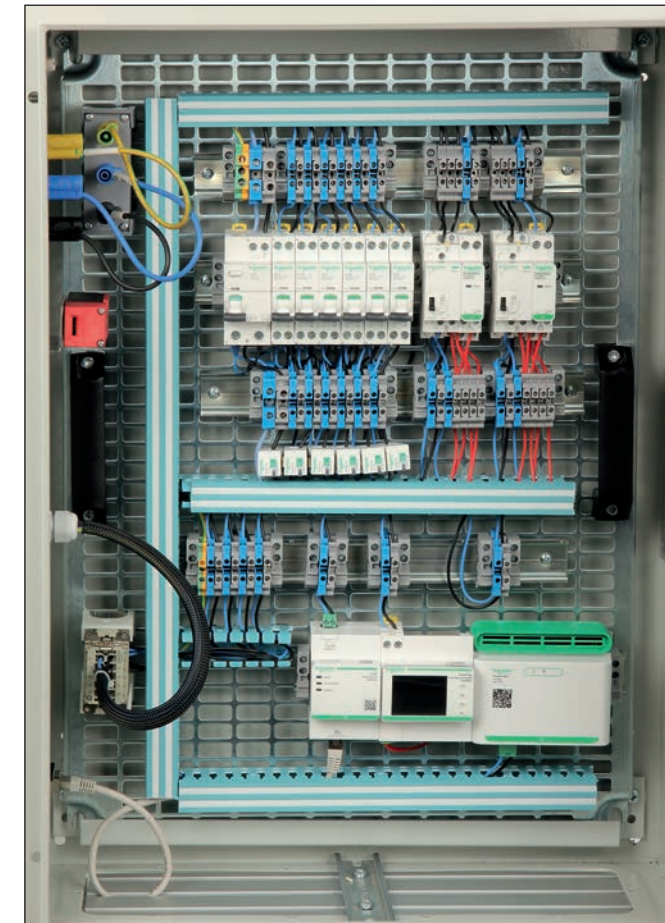
AUTONOMOUS WIFI NETWORK

TEACHING RESSOURCES STUDENTS / TEACHER



EDUCATIONAL OBJECTIVES

- Study an industrial-type electrical installation
- Study an energy measurement system
- Establish an energy balance
- Understand the specifications of an electrical installation
- Draw electrical diagrams
- Create a parts list
- Analyse manufacturers' technical data sheets
- Connect and configure the components
- Configure a WIFI network to allow remote control with tablet or Smartphone
- Realize the commissioning of the installation



Possible practical works

- Wiring and configuration of components.
- Current and voltage measurements at the load terminals and directly on the mounting grid.
- Consumption records based on operating cycles.
- Comparison of the power displayed and the calculated one from various readings.
- Creation of operating scenarios.
- Alerts and notifications configuration.

Pedagogical file under format Teacher / Student

- Educational activities to create scenarios in order to reduce consumption and optimize the system operation.
- Skills assessment sheets.
- Technical instructions + component manufacturer datasheet + extracts from electrical standards + wiring diagrams according to the state of progress during the Practical exercises

Composition

Front side

- 1 differential circuit breaker
- 1 on/off button
- 1 emergency stop button
- 1 key switch
- 2 electrical outlets
- 4 connection points for 230VAC on 4mm safety terminals

Back side

- 1 WIFI access point (local WIFI network specific to the system)
- 1 power cord

Wiring grid

- Mounting grid powered via 4mm safety terminals
- Connection to output terminals with industrial connector
- 1 Differential circuit breaker
- 6 Protection circuit breakers
- 2 Radio modular contact sensors
- 2 Impulse switches
- 6 Radio current sensors
- 1 Ethernet gateway
- 1 Screen
- 1 Fire detector and ambient temperature sensor

SUPPLIED ACCESSORIES



- 2 lamps
- 2 1300W rheostats
- 1 set of 4mm safety test leads

CYBERSECURITY OPTION
ROUTER - FIREWALL - VPN



ref. IP-FW

Router-Firewall can be integrated into Langlois communicating products.

It allows the application of skills in network administration and cybersecurity. This module is very easy to integrate and configures simply and quickly.

The IP-FW option includes:

- 1 Router-Firewall ready to use with solution installed and configured.
- 1 set of ethernet cables
- 1 technical notice
- 1 set of network and cybersecurity oriented practical work:
 - Reminder on network administration and cybersecurity
 - Installation and connection of the module
 - Configuration of the box (DHCP Server, LAN Interface, VLAN, traffic rule...etc...)
 - Configuring a VPN tunnel
 - Carrying out maintenance operations.